

DUNAYEV, A.F., nauchnyy sotrudnik; SUVOROVA, Ye.V., nauchnyy sotrudnik;  
SOLOVEYCHIK, A.I., nauchnyy sotrudnik; PODKOPAYEVA, G.M.,  
nauchnyy sotrudnik.

Increasing the consultative role of the polyclinical department  
of a provincial hospital. Zdrav. Bel. 9 no.1:5-8 J'63.  
(MIRA 16:8)

1. Iz Belorusskogo nauchno-issledovatel'skogo sanitarno-gi-  
giyenicheskogo instituta (direktor P.V.Ostapenya)  
(MI NSK PROVINCE--HOSPITALS—OUTPATIENT SERVICES)

PODKOPAEVA, K. N.

I. M. DOLGOPOLSKII, Zhur Ob Khim, v. 17 (79) Sept. 1947, p. 1695-  
1698

PODKOPAYEV, V.A., master

Groove-grinding machine for the racers of single-ball thrust bearings. Bum. prom. 38 no.11:25-26 N '63. (MIRA 17:1)

1. Mekhanicheskiy tsekh Priozerskogo tselyulocznogo zavoda.

PODKOPAYEVA, V.K., otv. za vypusk; MODVEDOVA, M.A., tekhn. red.

[Album of drawings for the 2D100 diesel locomotive]  
Al'bom chertezhei dizelia 2D100. Moskva, Transzhel-  
dorizdat. Vol.1. [Block with covers, cranksheets,  
vertical transmission, cylinder sleeves, connecting rod  
and piston group, air blower] Blok s kryshkami, kolen-  
chatye valy, vertikal'naia peredacha, gil'zy tsilindrov,  
shatunno-porshnevaia gruppa, vozdukhoduvka. 1963. 280 p.  
(MIRA 16:12)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye lokomo-  
tivnogo khozyaystva.  
(Diesel locomotives--Design and construction)

L 8911-65 EWT(n)/T IJP(s)/AFMDC/RAEM(t)/ESD(u)/AEDC(v)/AS(mp)-2/ESD(g)

ACCESSION NR: AT4013983

S/3070/63/000/000/0152/0156

AUTHOR: Gall', R. N.; Podkopayeva, N. G.; Prilutskiy, R. Ye.; Tyutikov, A. M.; Shereshevskiy, A. M.

TITLE: An ion counter |9

SOURCE: Novye mashinnye pribory dlya ispytaniya metallov. Sbornik statey. Moscow, Metallurgizdat, 1963, 152-156

TOPIC TAGS: Ion counter, Ion current channel, mass spectrometer, Ion channel sensitivity, Ion counter design, Ion current measurement, w

ABSTRACT: Noting that one of the fundamental problems in the development of mass-spectrometric equipment is the need to increase the measurement sensitivity for ion currents (which does not exceed  $2 \cdot 10^{-15}$  amperes in conventional mass-spectrometers), the authors announce the development of an ion counter which permits a 1000-fold increase in the sensitivity of the ion current measuring channel. A simplified block diagram of the ion counter (see Fig. 1 in the Enclosure), the design of an ion receiver and an electron multiplier with measuring unit are illustrated. Three procedures are described for the use of this counter in measuring ion currents. In the first method, as in the conventional mass spectrometer, the lower test limit for ion currents is fixed by the fluctuations and drift of the Card 175

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ACCESSION NR: AT4013983

electrometric amplifier, the level of which corresponds to an ion current of  $2 \cdot 10^{-15}$  amperes. The second method - the measurement of the integral value of the current at the output of the electron multiplier - provides a test range for ion currents extending from  $10^{-10}$  to  $10^{-18}$  amperes with a multiplier gain factor of  $10^6$ . The third procedure calls for the ion current to be measured according to the mean repetition frequency of the pulses, created by the individual ions, at the multiplier output. In this case, the recommended test range is  $10^{-15} - 10^{-18}$  amperes. The operation of the test circuit with the electron multiplier is described in detail. The pulse amplifier contains a pulse-shaping stage, three voltage-boosting stages and a cathode follower at the output. Maximum gain of the pulse amplifier is  $3 \cdot 10^4$ ; amplitude characteristic nonlinearity up to an output voltage of 150 volts is not more than 2%, and gain factor instability after 8 hours of continuous operation is less than 2%. The differential analyzer is briefly described; the time constant of the intensimeter integrating network is said to be 1 second. A 16-stage linear electron multiplier with electrostatic focussing is used in the ion counter. The dynode activation method employed provides high gain together with high stability. The ion counter was tested on a MI130b mass-spectrometer with a central trajectory radius of the ion beam of 300 mm. An error range below 2% was confirmed in the measurement of abundance ratios for Hg and Xe isotopes. Orig. art. has 4 graphs and 1 table.

Card 2/5

3. 8933-55  
ACCESSION NR: A74013983

ASSOCIATION: Spetsial'noye konstruktorskoye byuro analiticheskogo priborostroyeniya (Special Design Bureau for Analytic Instrumentation)

SUBMITTED: 00

SUB CODE: NP

NO REF Sov: 001

ENCL: 02

OTHER: 001

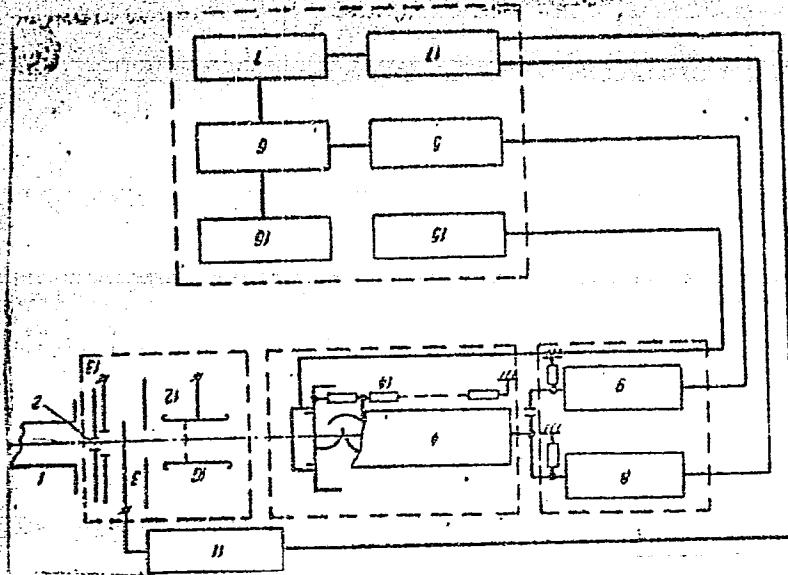
Card 3/5

L 8911-65

ACCESSION NR:

AT4013983

ENCLOSURE 1 01



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L 8911-65

ACCESSION NR: AT4013983

ENCLOSURE: 02

Citation to Fig. 1.

Fig. 1. Simplified block diagram of ion counter

1-analyzer chamber, 2-ion receiver aperture, 3-traversing collector, 4-electron multiplier, 5-impulse amplifier, 6-analyzer, 7-rate meter, 8-electrometric cascade II, 9-cathode follower, 10-retarding electrode, 11-electrometric cascade I of DC amplifier, 12-grounded screen, 13-antidynatron electrode, 14-voltage divider, 15-multiplier power unit, 16-counter, 17-DC amplifier unit

Card 5/5

KONCHALOVSKAYA, Natal'ya Petrovna; SEMENOV, Yulian Semenovich;  
PODKOPAYEVA, Ye.M., otv.red.; MOLOKANOVA, N.A., tekhn.red.

[China, how do you do!] Chzhmgo, nin' khao! Moskva, Gos.izd-vo  
detstvo lit-ry M-va prosv.RSFSR, 1959. 106 p.

(MIRA 13:12)

(China--Description and travel)

PODKORYTOV, A.B., inzh.

Measuring the radial component of the cutting force by means of  
a vibrating contact transducer. Trudy Ural. politekh. inst.  
no.112:42-46 '61. (MIRA 16:7)

(Metal cutting—Measurement)  
(Transducers)

GASHUKOV, V.S.; PLOTNIKOV, V.S.; PODKORYTOV, A.B.; LIRMAN, M.V.

Investigating the performance of some units of the hydraulic  
system of the T-157 loader. Trudy Ural.politekh.inst. no.136:  
112-119 '64. (MIRA 17:10)

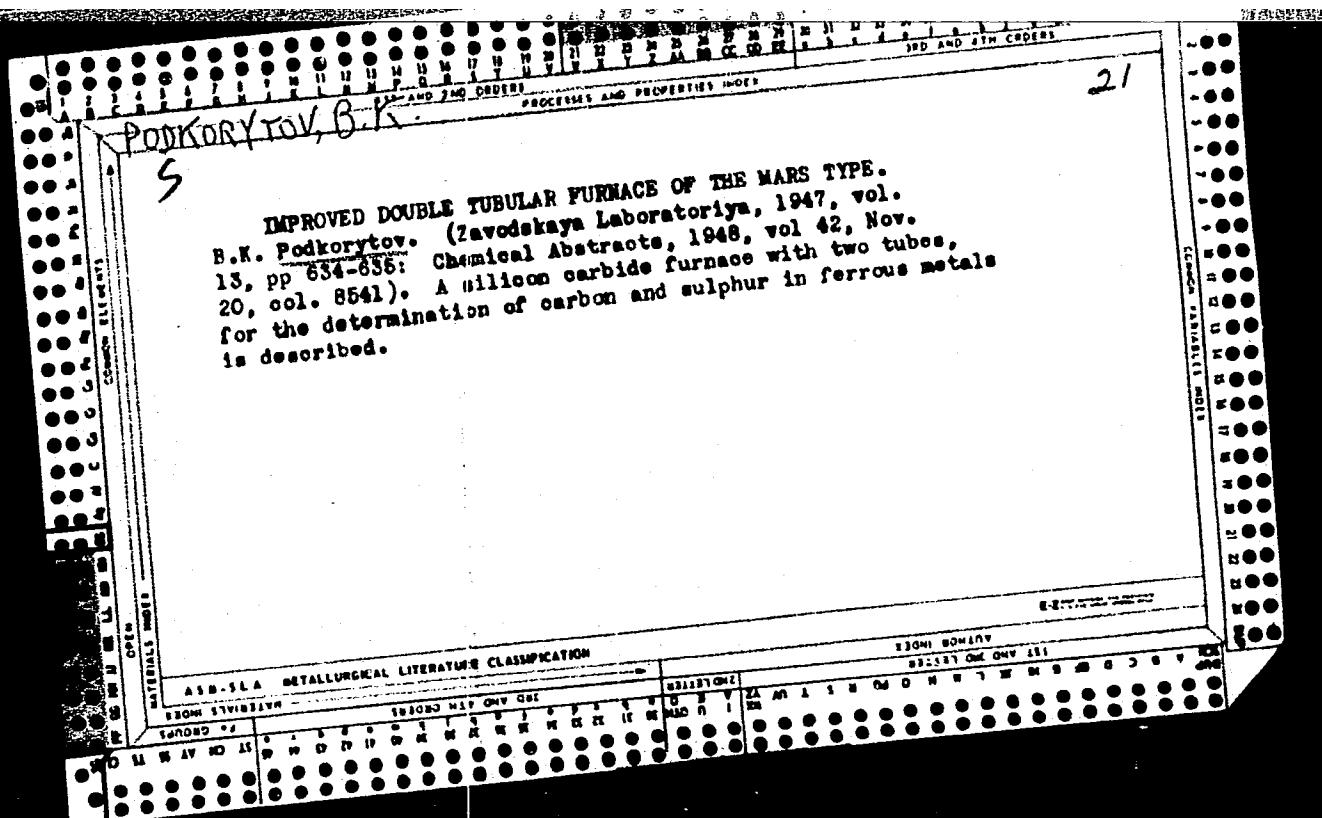
PODKORYTOV, A.M.; SHAN'GIN, A.M.

How we uncover potentialities. Metallurg 10 no.9:45 S '65. (MIRA 18:9)

1. Alapayevskiy metallurgicheskiy kombinat.

KLYUYEV, Yu.B., inzh. (Sverdlovsk); KIGEL', L.S., inzh. (Sverdlovsk);  
PODKORYTOV, A.P., inzh. (Sverdlovsk); PROSVIRNIN, V.D., inzh.

Replacement of the primary heat carrier (steam with water) in hot  
water supply systems of central heating boilers. Energetik 13 no.6:  
10-11 Je '65. (MIRA 18:7)



PODKORYTOV, B. K.

PA 28/49T105

USSR/Metals

Oct 48

Steel, Carbon

Chemistry - Carbon, Determination of in Steels

"Rapid and Exact Method of Determining Small Amounts of Carbon in Steel," B. K. Podkorytov, Ural Inst of Ferrous Metals, 1 p

"Zavod Lab" Vol XIV, No 10

Demonstrates a more rapid and accurate method than the barytic volumetric method. It is improved version of the gas volumetric method, using Virts apparatus with burette for 0.5 or 0.25% of carbon.

28/49T105

SHAKIMATOV, V.M., kand. tekhn. nauk; RUDAKOV, A.S., inzh.; PODKORYTOV,  
Ya.T., inzh.

Butt welding of cast iron sewer pipes with shaped fittings.  
Svar. proizv. no. 418-20 Ap '65.

(MIRA 18:6)

1. Chelyabinskij politekhnicheskij institut (for Shakhmatov,  
Rudakov). 2. Chelyabinskij trest "Yuzhuralsantekhnmontazh"  
(for Podkorytov).

ZEMSKOV, V.S.; BELAYA, A.D.; PODKORYTOVA, G.N.

Electric activity of tin in germanium. Fiz. tver. tela 6 no.8:  
2552-2554 Ag '64.  
(MIRA 17:11)

1. Institut metallurgii imeni Baykova, Moskva.

ACCESSION NR: AP4043399

S/0181/64/006/008/2552/2554

AUTHORS: Zemskov, V. S.; Belaya, A. D.; Podkory\*tova, G. N.

TITLE: On the electric activity of tin in germanium

SOURCE: Fizika tverdogo tela, v. 6, no. 8, 1964, 2552-2554

TOPIC TAGS: tin, germanium, doping, liquid phase, solid phase, distribution statistics, single crystal, Hall effect, electroneutral molecule, impurity conduction, ionization energy

ABSTRACT: In view of the contradictory data on this subject, the authors attempt to ascertain the electric activity of tin in germanium by employing a theory of H. Reiss (J. Chem. Phys., v. 21, 1209, 1953), from which it follows that when the ionization conditions of the doping atoms change, an accompanying change takes place in the distribution coefficients of these elements between the liquid and solid phase. Thus, if tin is a donor, then its addi-

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ACCESSION NR: AP4043399

tion to germanium doped with an acceptor element should cause an increase in the distribution coefficient of both the tin and of the acceptor element. The acceptor element employed was gallium. The germanium single crystals were grown by a procedure described in detail elsewhere (FTT, v. 5, 1601 and 1100, 1963). The gallium concentration was determined by Hall-effect measurements. The obtained data on the concentration of gallium and tin in the solid phase were used to calculate the distribution coefficients and to plot the dependence of the distribution coefficients of gallium and tin on the ratio of these elements in the liquid phase. The results can be interpreted only by assuming that tin is not electrically neutral and that its donor nature is due to the unusual dependence of the distribution coefficient of gallium on its concentration in the melt. This explains also the disparity between the theoretically calculated and experimentally measured distribution coefficients of gallium, for the calculations were based on the assumption that the tin is electrically neutral. It is there-

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ACCESSION NR: AP4043399

fore concluded that tin serves as a donor impurity in germanium and that the ionization energy of the tin atoms is close to the ionization energy of the germanium. Orig. art. has: 1 figure.

ASSOCIATION: Institut metallurgii im. A. A. Baykova, Moscow  
(Institute of Metallurgy)

SUBMITTED: 02Mar64

ENCL: 01

SUB CODE: SS

NR REF Sov: 004

OTHER: 006

Cord 3/4

PODKOŚCIELNY, W.

Distr: E3d

BU(BW)  
JKJ(NB)

Synthesis and properties of (acenaphthenythio)alkane carboxylic acids. I. M. Janczewski and W. Podkościelny (Univ. Lublin, Poland). *Kozmicki Chem.* 32, 684 (1958).  $\alpha$ -(3-Acenaphthene-thio)propionic acid, m. 117°, and  $\alpha$ -(3-acenaphthenethio)butyric acid, m. 91°, were obtained from 3-mercaptopacenaphthene (I) according to Dziewoński, et al. (*CA* 22, 1154). 3-Acenaphthene-sulfonylactic acid (II), m. 155°, and 3-acenaphthene-sulfonylactic acid, m. 182°, were prcd. by oxdn. of the corresponding mercapto acid with  $H_2O_2$  in glacial AcOH. Racemic II was then sepd. into its optical antipodes by fractional crystn. of their cinchonidine salts. Two derivs. of I, 3-methylthioacenaphthene, m. 40–52°, and 3-allylthionaphthene, m. 48–8°, were obtained. K. Bojanowska

JANCZEWSKI, M.; PODKOSCIELNY, W.

Studies on the influence of the molecular structure on the optical properties of compounds with carbonic asymmetric centers. Pt.2.  
Bul chim PAN 12 no.6:361-365 '64.

1. Department of Organic Chemistry of Marie Skłodowska-Curie University, Lublin. Submitted March 5, 1964.

PODKOSHA, G.P., gornyy inzh.; TERESHCHENKO, A.A., gornyy inzh.

Using igdanite at an iron ore strip mine. Vzryv. delo no.54/11:  
266-267 '64. (MIRA 17:9)

1. Rudnik Krivorozhskogo tsentral'nogo gornoobogatitel'nogo  
kombinata.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001341430006-9

SERBIN, V.I.; BERESHEVICH, I.V.; PODROZHA, G.P.; GAVRILOV, B.N.

Using transloading points at Krivoy Rog Basin strip mines.  
Met. i gornorud. prem. no.6:60-61 R-B '64.

(MIRA 18:3)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001341430006-9"

ZINENKO, V.A.; PODKOSHA, G.P.; TERESHCHENKO, A.A.; TKACHENKO, A.P.;  
KRASOVSKIY, Yu.P.

Ways of lowering the seismic action of large-scale blasts in  
a pit of the Central Ore Dressing Combine. Gor. zhur. no.9:72  
S '62. (MIRA 15:9)

(Krivoy Rog Basin--Blasting)

SKORYKH, S.S., gornyy inzh.; KRASOVSKIY, Yu.P., gornyy inzh.; PODKOSHA, G.P.,  
gornyy inzh.

Speeding up the working of iron-ore pits. Gor. zhur. no.7:20-21 Jl  
'62. (MIRA 15:7)

1. Tsentral'nyy gorno-obogatitel'nyy kombinat, Krivoy Rog. 2. Nauchno-  
issledovatel'skiy gornorudnyy institut (for Krasovskiy).  
(Krivoy Rog Basin--Strip mining)

TKACHENKO, A. P., iinsh. PODVOISKH. T. V., knan.

Methods of determining the number of simultaneous, i.e. observed  
benches in open-pit mining. Vnzyv. deis no. 57/4-256-353 '63.  
14.04.1963.

1. Krivorechskiy filial Instituta gornog. deiz. By SP. meni  
Fedorova (for "Kachenka"). 2. Novokrivorechskiy gorno-geologicheskiy  
nyy kombinat tverdiy zemelnykh kompaniya (for "Kachenka").

PODKOSOV, L.G.

Accelerating the process of electrostatic separation of fine-grained rare-earth metal concentrates. TSvet. met. 36 no.1:  
11-15 Ja '63. (MIRA 16:5)  
(Electrostatic separators) (Rare earth metals)

MALAN'IN, M.I.; MALAN'IN, R.M.; MASLAKOV, F.G.; PODKOSOV, L.G.,  
nauchnyy red.; ANOKHINA, L.A., red.; SOKOLOVSKAYA,  
Ye.Ya., red. izd-va; IYERUSALIMSKAYA, Ye., tekhn.red.

[Separation of concentrates in electric separators] Raz-  
delenie shlikhov na elektricheskikh separatorakh. Mo-  
skva, Gosgeoltekhizdat, 1963. 28 p. (MIRA 16:7)  
(Separators (Machines))

PODKOSOV, L.G.; ALEKSANDROW, V.A.

The EKS-1250 and EKS-3000 high-duty electric separators. Biul.-  
tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekhn.inform.  
no.3:7-10 '62. (MIRA 15:5)  
(Separators (Machines))

PODKOSOV, L.G.

Establishing a flowsheet for the preparation of Samotkan' deposit  
snads. Titan i ego splavy no.4:3-7 '60. (MIRA 13:11)  
(Samotkan' region—Titanium ores)  
(Ore dressing)

8/081/62/000/004/043/087  
B156/B138

AUTHORS: Podkosov, L. G., Akopova, K. S., Romanovskaya, N. Ye.

TITLE: Collective flotation of titanium-zirconium sands

PERIODICAL: Reforativnyy zhurnal. Khimiya, no. 4, 1962, 359, abstract 4K41 (Tr. Vses. n.-i. in-ta mineral'n syr'ya, no. 6, 1961, 158 - 166)

TEXT: It is shown that the entire complex of heavy minerals have good flotabilities with fatty acid type collectors. The highest flotability is possessed by aluminosilicates and zircon, the lowest by ilmenite and leucoxene. Of the collectors tested, sulphate and tallow oils are considered the best. [Abstracter's note: Complete translation.]

Card 1/1

S/137/62/000/003/038/191  
A006/A101

AUTHORS: Podkosov, L. G., Akopova, K. S., Romanovskaya, N. Ye.

TITLE: Collective flotation of titanium-zirconium sands

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 13, abstract 3086  
("Tr. Vses. n.-i. in-ta mineral'n. syr'ya", 1961, no. 6, 158 - 166)

TEXT: The authors investigated flotation of Ti-Zr sands of three deposits in a laboratory, and partially under industrial conditions. The basic mineral products of the deposits are: ilmenite, rutile, leucoxene, zircon; the sands of one of the deposits contain a considerable amount of aluminosilicates. In the sands the ore mineral grains are finer than the dead rock (quartz). The sands can be well washed. The content of slime particles in the sands is on the average 15 - 20%. Tests were made with oleic acid, sulfate soap, soap-naphtha, soapstock, tall oil, oxidized petrolatum, VM-11 (IM-11) alkylsulfate etc. Tall oil is the most effective reagent. The investigations show the satisfactory flotability of the whole complex of heavy minerals. Highest flotation activity is shown by aluminosilicates and zircon, and least by ilmenite and leucoxene. The selection of a collector is determined by its cost, availability, stability of properties, toxicity and by the ✓

Card 1/2

S/137/62/000/003/038/191  
A006/A101

Collective flotation of...

degree of difficulty of subsequent refining of the collective concentrate. Best results in basic flotation were obtained with sulfate soap at 6 kg/t consumption. In this case extraction of  $ZrO_2$  was 97.3% and of  $TiO_2$  94.04% of the initial ore. The tails contained in %: ilmenite 0.25, staurolite 0.13; disthene 0.25. A qualitative scheme of industrial tests is presented.

A. Shmeleva

[Abstracter's note: Complete translation]

Card 2/2

SHMANENKOV, I.V., red.; ZVEREV, L.V., red.; KOVALENKO, O.V., red.;  
SOKOLOV, I.Yu., red.; EYGELES, M.A., red.; Prinyali uchastiye:  
BASMANOV, V.A., red.; KAMINSKAYA, L.S., red.; KOTS, G.A., red.;  
LEVIUSH, I.T., red.; MOKROUSOV, V.A., red.; PODKOSOV, L.G.,  
red.; ROZHKOVA, Ye.V.; SOLOV'YEV, D.V., red.; FEDOROV, P.N., red.;  
FINKEL'SHTEYN, I.D.; KHONINA, O.I., red.; GRISHINA, T.B., red.  
izd-va; GUROVA, O.A., tekhn. red.

[Studies on the dressing and industrial processing of minerals]  
Issledovaniia po obogashcheniiu i tekhnologii poleznykh iskopaemykh.  
Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr,  
(MIRA 14:7)  
1961. 131 p.

1. Russia(1923- U.S.S.R.) Ministerstvo geologii i okhrany nedr.
2. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo  
syr'ya (for Egyeles, Leviush)

(Ores)

PLAKSIN, I.N., red.; KLASSEN, V.I., prof., doktor tekhn.nauk, red.;  
PODKOSOV, L.G., kand.tekhn.nauk, ovt.red.; TSUKERMAN, S.Ya.,  
red.izd-va; KONDRAT'YEVA, M., tekhn.red.

[Theory of gravity methods of mineral ore dressing; transactions]  
Voprosy teorii gravitatsionnykh metodov obogashcheniya poleznykh  
iskopayemykh; trudy. Pod red. I.N.Plaksina i V.I.Klassena. Moskva,  
Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 258 p.  
(MIRA 14:1)

1. Vsesoyuznoye soveshchaniye po voprosam teorii gravitatsionnykh  
metodov obogashcheniya poleznykh iskopayemykh. 1958. 2. Chlen-  
korrespondent AN SSSR (for Plaksin). 3. Institut gornogo dela  
AN SSSR (for Plaksin, Klassen). 4. Vsesoyuznyy institut mineral'nogo  
syr'ya (for Podkovov).  
(Ore dressing)

MALAN'IN, M.I.; KOTS, G.A.; PODKOSOV, L.G.; ROZHKOV, V.D.

Method for the quick evaluation of the ability of minerals to undergo dressing. Razved. i okh. nedr 30 no.10:19-23 O '64.  
(MIRA 18:11)

1. Gosudarstvennyy geologicheskiy komitet SSSR (for Malan'in).
2. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya (for Kots, Podkovsov, Rozhkov).

SHAPIRO, S.Ye.; ZHDANOV, I.S.; BARYSHNIKOVA, A.I.; KIREYEVA, R.Ya.;  
CHAPOVSKAYA, L.G.; KRUPNIKOVA, A.M.; PODKOSOVA, N.I.

Analysis of an outbreak of paratyphoid B caused by infected chicken  
egg products. Zhur. mikrobiol. epid i immun. 31 no.6:26-31 Je '60.  
(MIRA 13:8)

1. Iz Khabarovskogo instituta epidemiologii i gigiyeny, Meditsinskogo  
instituta i Gorodskoy sanitarno-epidemiologicheskoy stantsii.  
(KHABAROVSK—PARATYPHOID FEVER)  
(FOOD CONTAMINATION)

PODKOVENKO, V.

Problem concerning the washing of rye. Muk.-elev. prom. 28  
no.2:27 F '62. (MIRA 15:3)

1. Direktor Kiyevskogo mel'nicchnogo kombinata No.2.  
(Rye--Cleaning)

PODKOVENKO, V. s. insh.

In the Technical Council of the Ministry of Grain Products of the  
Ukrainian S.S.R. Muk.-elev. prom. 24 no.10:29 0 '58. (MIRA 11:12)

1. Ministerstvo khleboproduktov USSR.  
(Grain trade)

PODKOVENKO, V.

Mechanized chamber for thermal processing of sacks. Muk.-elev. prom.  
29 no.12:22-23 D '63. (MIRA 17:3)

1. Direktor Kiyevskogo kombinata khleboproduktov No.2.

PODKOVENKO,V.

System of weighing grain and its products in mills under the Office  
of Flour Milling needs to be revised. Mukh.-elev.prom.21 no.9:30  
S '55. (MLRA 8:12)

1. Odesskiy trest Glavmuki  
(Odessa Province--Grain handling)

STEPANOV, V.; PODKOVENKO, V.; CHMYR', A.

Automatic thermometer for fire prevention systems and fire alarms.  
Muk.-elev.prom. 21 no.11:20-21 N '55. (MLBA 9:4)

1.Odesskaya mol'nitsa no.2.  
(Fire alarms)

PODKOVKA, G. S.

Tobacco Curing

Master driers of the Kurdzhipskiy State Farm fulfilled their pledges. Tabak 14, No. 1, 1953.

Monthly List of Russian Accessions, Library of Congress  
June 1953. UNCL.

S/137/60/000/012/020/041  
A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 12, pp. 136 -  
137, # 29142

AUTHORS: Podkovich, Ye.G., Taratin, V.M.  
TITLE: Structure and Properties of Pseudoalloys Obtained by Gas-Flame  
Metallizing

PERIODICAL: Tr. Rostovsk.-n/D. in-ta s-kh. mashinostr., 1959, No. 12, pp. 46-  
51

TEXT: An investigation was made of steel and Cu pseudoalloys applied by  
the methods of gas-flame metallizing and electrometallizing. Steel (0.14% C) and  
Cu wire, 1.3 mm in diameter was used as initial coating material. Microstructures  
of pseudoalloys obtained by gas flame and electric metallizing are distinguished  
by particle dimensions of striated orientation, dimensions and arrangement of  
oxide films, size and amount of pores. The possibility of regulating the heat  
source and the protective effect of gas combustion products in gas flame metalliz-  
ing assure greater density, lesser particle size and a lesser amount of pores in

Card 1/2

S/137/60/000/012/020/041  
A006/A001

Structure and Properties of Pseudoalloys Obtained by Gas-Flame Metallizing

the pseudoalloy, than in electric metallizing. Physico-mechanical properties of pseudoalloys are higher in gas-flame metallizing than in electrometallizing. The coefficient of metal utilization and the uniformity of the particle spraying are also higher in gas flame metallizing. The advantages of gas flame metallizing over electrometallizing consist in the use of simpler devices, higher quality of coatings and lower costs (in particular when replacing C<sub>2</sub>H<sub>2</sub> by natural gas).

S.U.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

ASTAKHOV, V.A.; PODKOVKIN, M.F.; KULIKOV, Yu.A.

Characteristics of the automatic fluid outlet of gathering and distribution containers of low-temperature separators having a diethylene glycol inlet. Gaz. delo no.7:15-19 '65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut prirodnogo gaza.

REMNEV, V.F.; ANDERS, V.R.; PODKOVKIN, M.F.; BULAKH, Ye.S.

Electropneumatic temperature indicator. Khim. i tekhn.topl.  
1 masel 4 no.3:33-35 Mr '59. (MIRA 12:4)

1. Spetsial'noye konstruktorskoye byuro po avtomatizatsii  
neftepererabotki i neftekhimicheskikh proizvodstv.  
(Temperature regulators) (Electronic transformers)

PODKOVSKY, A.F.

Introducing the SZR-24 combined pressing grain drier. Rely. tsikh-  
ekon. Inform. Gos. nauch.-tekhn. inst. nauch.-tekhn. inform. 13 no. 5337-  
38 My '65. (MTRA 1286)

VOROPAYEVA, Anastasiya Vasil'yevna; PODKOVSHCHIKOVA, Yelana Ivanovna;  
SMIRNOVA, K.M., red.; BELEN'KAYA, I.Ye., tekhn. red.

[Dynamic series; textbook] Dinamicheskie riady; uchebnoe posobie. Minak, Izd-vo M-va vysshego, srednego spetsial'nogo i professional'nogo obrazovaniia BSSR, 1961. 22 p. (MIRA 15:1)  
(Statistics)

PODKOVSHCHIKOVA, Yelena Ivanovna; VEREVKINA, N.M., red.; MISHKO, A.I.,  
tekhn.red.

[Application of sampling study in statistical practice; textbook]  
Primenenie vyborochnogo nabliudeniia v praktike statistiki;  
uchebnoe posobie. Minsk, Izd-vo Belgosuniv. im. V.I.Lenina, 1960.  
24 p. (MIRA 13:12)

(Sampling (Statistics))

PODKOVSKIY, A.F.

The SZKP-24 grain combined press planter. Trakt. i sel'khozmash.  
no. 4-37-38 Ap '65. (MIRA 18:5)

1. Spetsial'noye konstruktorskoye byuro zavoda "Krasnaya zvezda".

PODKOVYRIN, A., inzh.

A new tractor built by the Onega Tractor Plant. Trakt. i sel'khozmash. 33  
no.1:3-4 Ja '63. (MIRA 16:3)

1. Onezhskiy traktornyy zavod.  
(Tractors)

L 26674-66 EWT(d)/EWP(h)/EWP(1)

ACC NR: AP6009551

SOURCE CODE: UR/0413/66/000/005/0093/0094

AUTHORS: Amel'kovich, I. I.; Artamonov, Yu. G.; Dyatlov, Ye. S.; Magirovskiy, N. P.; Novozhilov, Yu. I.; Orlov, S. F.; Pikkuvirta, P. O.; Podkovyrin, A. I.; Polyachenko, V. A.; Senchenko, L. P.; Fedoseyev, O. V.; Shubin, L. V.

ORG: none

TITLE: Machine for gathering, hauling, and transportation of felled trees. Class 45, No. 179539 [announced by Onega Tractor Factory (Onezhaskiy traktornyy zavod); Leningrad Kirov Factory (Leningradskiy Kirovskiy zavod); Leningrad Forestry Technical Academy im. S. M. Kirov (Leningradskaya lesotekhnicheskaya akademiya)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 5, 1966, 93-94

TOPIC TAGS: tractor, forestry, forestry product

ABSTRACT: This Author Certificate presents a machine for hauling, gathering, and transporting felled trees, consisting of a mono-axle tractor, semitrailer with steering axle connected with the tractor by a universal joint, and a hoist. To insure a continuous pick-up of felled trees and their loading on the machine, the latter is equipped with a movable boom, to the end of which is attached a pincer clamp. To improve the maneuverability of the machine, the movable boom is mounted on the tractor frame and the pick-up device on the frame of the semi-trailer. To

UDC: 629.114.4:634.0.377.4

Card 1/2

L 26674-66

ACC NR: AP6009551

prevent damage to the movable parts, the latter are protected by means of pipe fastened above the saddle hitch device. To facilitate the loading of large packets of trees, a pulley is attached to the protective pipe (see Fig. 1).

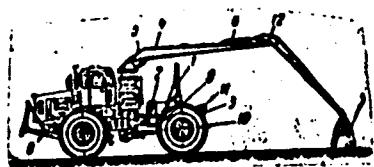


Fig. 1. 1 - pick-up assembly; 2 - hoist;  
3 - saddle-hitch device; 4 - movable boom;  
5 and 6 - power cylinders; 7 - pincer clamp;  
8 - mono-axle tractor; 9 - semitrailer;  
10 - steering axle of semitrailer; 11 - protective pipe; 12 - pulley.

Orig. art. has: 1 diagram.

SUB CODE: 13,02 / SUBM DATE: 15Jun64

Card 2/2 BLQ

PODKOVYRIN, I.A., Cand. "phys.-math. Sci--(disc) "Diffraction interferometer  
on the basis of Tepler's instrument." Kazan', 1956. 7 pp (Kazan' Order  
of Labor Red Banner State U im V.I. Ul'yanov-Lenin), 120 copies (KL,26-58,105)

PodKOVYRIN, I.A.

Measurement of the refractive indices of gases with the  
Foucault apparatus. I. A. Podkorytin. Uchenye Zapiski  
Kazan. Gosudarstv. Univ. im. V. I. Ul'yanova-Lenina. Otdelenie  
prirody. Ser. 1. No. 1, 109-11(1956).—Brief description  
of a sensitive interference method to compare the  
n of a gas under consideration with a standard gas, or with  
vacuum. The difference error for indexes of CO<sub>2</sub> and air  
was  $3 \times 10^{-7}$ . E. Ryshkenich

Distr: 4E4j

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PODKOVYRIN, I.A.

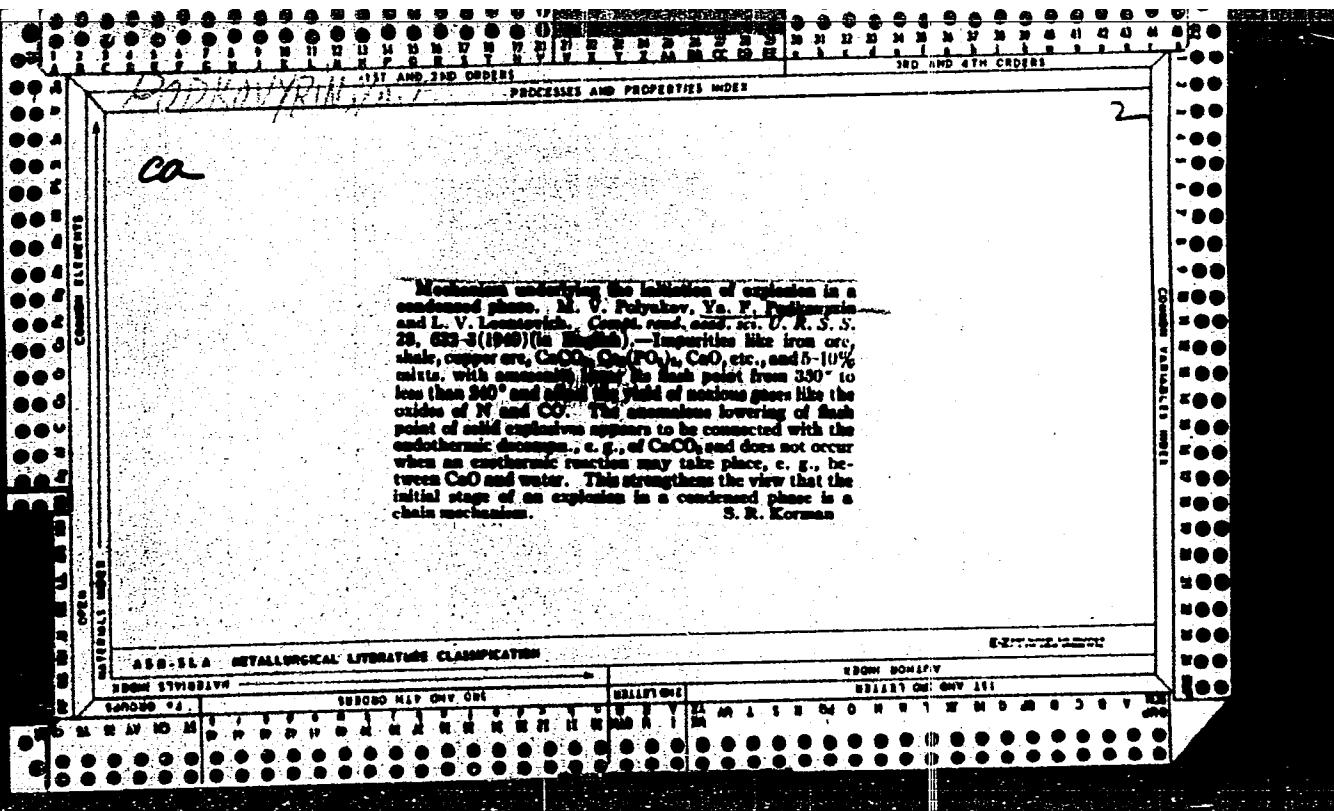
Measurement of refraction indices of gases with Tepler's apparatus.  
Uch.zap.Kaz.un. 116 no.1:109-111 '55. (MLRA 10:5)

I.Kafedra molekulyarnykh i teplovых явлений.  
(Refractive index) (Gases--Analysis)

PODKOVYRIN, I.A.

Difraction interferometer on the basis of Tepler's apparatus.  
Uch.zap.Kaz.un. 116 no.5:60-62 '56. (MLRA 10:4)

1. Kafedra molekulyarnykh i teplovых явления.  
(Interferometer)



GRINBERG, S.D., inzh.; PODKOVYRIN, Ye.Ya., inzh.

Measuring small variations of speed by frequency comparison.  
Trudy Inst.chern.met. AN URSR 16:129-137 '62. (MIRA 15:12)  
(Rolling (Metalwork)—Speed)  
(Electronic measurements)

PODKOVYRKIN, A. I.

Disseminating experience of mining tin mines. Gor. zhur. no.1:31-35  
Ja '57. (MLRA 10:4)

1. Glavolovo.  
(Tin mines and mining)

PODKOVYRKIN, A. I.: JUNAVIN, N. V.: SMIRNOV, I.D.

Mining Engineering

Work experience of Ya. N. Kharlashin's brigade. Gor. zhur. no. 3, 1952

Monthly List of Russian Accessions, Library of Congress, April 1952. Unclassified.

PODKOVYRKIN, B.A.

Terrestrial mammals of Shumshu Island (Kurile Islands).  
Zool. zhur. 39 no. 10:1579-1581 0 '60. (MIRA 13:11) .  
(Shumshu Island--Mammals)

PODKOVYRKIN, B.A.

Observations on the nesting of pipits (genus *Anthus*) on  
Shumshu Island (Kurile Islands). Trudy Probl. i tem. sov.  
no. 9:273-275 '60. (MIRA 13:9)  
(Shumshu Island--Pipits)

PODKOVYRKIN, B.A.

Contribution to the biology of reproduction of certain birds of the  
Northern Kurile Islands [with English summary in insert]. Zool. zhur.  
35 no.12:1892-1901 D '56. (MIRA 10:1)  
(Kurile Islands--Birds)

~~PODKOVYRKIN, B.~~

Terrestrial mammals of Shumshu Island. Biul. MOIP. Otd. biol.  
63 no. 4:125-127 J1-Aug '58 (MIRA 11:11)  
(SHUMSHU ISLAND—MAMMALS)

PODKOVYRKIN, B.A.

White snowy owl (*Nyctea scandiaca* L.) on Shumshu Island [with English summary in insert]. Zool. zhur. 35 no. 9:1420-1421 S '56.  
(Shumshu Island--Owls) (MLRA 9:12)

PODKOVYRKIN, B. A.  
25487

Zametka Ob Oseninem Prolete Lastochek. Zool. Zhurnal, 1948,  
Vyp. 4, s. 379-80.

SO: LETOPIS NO. 30, 1948

PODKOVYRKIN, E. A.

25487    PODKOVYRKIN, E. A., Zametka ob osennem prolete lastochek. Zool.Zhurnal,  
1948, vyp. 4, S. 379 - 80.

SO; Letopis' Zhurnal Statey, No. 30, Moscow, 1948

1. B. A. PODKOVYRKIN
2. USSR (600)
4. Birds - Kuril Islands
7. Flight of birds in the northern part of the Kuril ridge. Biul. MOIP. Otd. biol. 57 no. 6. 1952.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

PODKOVYRKIN, B.A.

List of birds in the northern part of the Kurile Island chain.  
Zool. zhur. 34 no. 6:1379-1385 N-D '55. (MLRA 9:1)

(Kurile Islands--Birds)

1. PODKOVYRKIN, B. A.
2. USSR (600)
4. Kuril Islands - Birds
7. Flight of birds in the northern part of the Kuril ridge. Biul MOIP Otd biol. No. 6 1952.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

PODKOVYRKIN, B.A.

Materials on the winter feeding habits of the raven (*Corvus corax*  
Behringianus D.) on the island of Shumshu of the Kurile chain. Zool.  
shur. №2 no. 6:1282-1285 N-D '53. (MLRA 6:12)  
(Kurile Islands--Ravens) (Ravens--Kurile Islands)

ZHURAVLEV, V.S.; PODKOVYRKIN, I.L.; SEMENENKO, P.P.; TULUYEVSKIY, Yu.N.;  
TYULEBAYEV, V.G.; CHEKANOVSKIY, M.L.

Automatic control of heat conditions in open-hearth furnaces  
with the use of alpha-indicators. Metallurg 8 no.6:13-15 Je '63.  
(MIRA 16:7)

1. Metallurgicheskiy kombinat imeni A.K. Serova i Chelyabinskii  
nauchno-issledovatel'skiy institut metallurgii.  
(Open-hearth furnaces) (Automatic control)

PODKOVYROV G.V.

PODKOVYROV, G.V., inzhener.

Synchronism pickup for automatic reclosing and synchronization in  
substations. Elek.sta.28 no.7:89-90 J1 '57. (MLRA 10:9)  
(Electric relays)

PODKOVYROV, G. V.

Electrical Engineering Abstracts  
May 1954  
Protection

7/Elec

1968. Longitudinal differential protection of generators. G. V. PODKOVYROV. Elekt. Stantsii, 1953, No. II, 32-5. In Russian.

Longitudinal differential protection conditions are analysed for coil-wound generators with two or more poles. The conditions are intrinsically different for two-pole and multi-pole generators, where the relation between number of short-circuited turns and variation of the a.c. current is concerned. It is found that for calculations of the sensitivity of the protection a useful approximation may be based on the value of the a.c. current at the output terminals of the generator working under no-load conditions. The formulae derived are applied to a hydrogenerator of given rating and design, and the deviating characteristics of turbo-alternators are also considered. The solution of the problem is found in the use of a 3-ph. relay instead of a 1-ph. one for the differential protection. This is borne out by operational experience, especially with hydro-generators, where the use of 3-ph. relays with a starting current of 60-70× the rated current and without additional resistances in the circuit of the differential relays also protects against the unbalance currents due to external short-circuits. This protection is suitable for generators with large fault-currents even where a higher sensitivity of the protection is not required and offers greater safety against incorrect relay response. B. F. KRAUS

PODKOVYROV, G. V.

DYNAMOS, Hydroelectric Power Stations

Protection of hydroelectric generators against  
increase in voltage. Elek. Sta. 23 no. 2, 1952.  
Inzh.

Monthly List of Russian Accessions, Library  
of Congress, April 1952. UNCLASSIFIED.

PODKOVYROV, G.V., inzhener.

Longitudinal differential protection of generators. Elek.sta. 24 no.11:32-  
35 N '53.  
(MLRA 6:11)  
(Dynamos)

PODKOVYROV, G.V., inzhener; FAYNSHTEYN, E.G., kandidat tekhnicheskikh nauk.

Relay protection of hydro generators at remote-controlled hydro-electric power plants. Elek. sta. 24 no.12:38-40 D '53.  
(MLRA 6:12)  
(Hydroelectric power stations)

PODKOVYROV, G. V.; KUZHIRNYY, A. A.; FAYNSHTEYN, E.G.

Dynamics Hydroelectric Power Stations

Protection of hydroelectric generators against increase in voltage. Elek. sta. 23, no. 2, 1952. Cand. Tekh. Sci.

Monthly List of Russian Accessions, Library of Congress, April 1952. UNCLASSIFIED.

PODFOVYROV, G. V.:

Electric Currents - Grounding; Dynamos

Operation of protective devices against ground  
short circuit of generators. Elek. Sta. No. 1, 1952.  
Inzh. Uzbekenergo

Monthly List of Russian Accessions, Library  
of Congress, March, 1952. UNCLASSIFIED.

PODKOVYROV, G.V.  
PODKOVYROV, G.V.

AID P - 3336

Subject : USSR/Power Engineering  
Card 1/1 Pub. 26 - 22/28  
Author : Podkovskyrov, G. V., Eng.  
Title : Ground protection of generators  
Periodical : Elek. sta., 8, 54, Ag 1955  
Abstract : A different type of ground protection relay was tested on five generators. Their operation is deemed satisfactory and their cost is low. One diagram.  
Institution : None  
Submitted : No date

PODKOVYROV, G.V., inzhener

Protection of generators from ground faults. Elek.sta.26 no.8:54  
Ag'55. (MLRA 8:12)  
(Electric relays)

ALESHIN, Aleksey Filippovich; PODKOVYROV, Mikhail Ivanovich; RUIZIN,  
Sergey Ivanovich; USTINOV, Veniamin TSezifovich; FAKEYEV, A.D.,  
red.; KIMMEL', L.S., red.izd-va; GRECHISHCHEVA, V.I., tekhn.red.

[Organization of the repair of lumbering equipment by the unit  
method] Organizatsiya remonta lesozagotovitel'nogo oborudovaniia  
agregatnym metodom. Moskva, Goslesbumizdat, 1961. 218 p.

(MIRA 15:2)

(Lumbering--Equipment and supplies)

RUZIN, S.I.; ALESHIN, A.F.; IVANOV, P.V.; PODKOVYROV, M.I.; ASONOV, A.A.; PLYUSNIN, A.K., red.

[Manual for a logging camp machinery operator] Spravochnik mekhanika lespromkhoza. [By] S.I.Ruzin i dr. Moskva, Goslesbumizdat, 1963. 431 p. (MIRA 17:6)

1. TSentral'nyy nauchno-issledovatel'skiy institut mekhanizatsii i energetiki lesnoy promyshlennosti (for all except Plyusnin).

PODKOVYROV, Nikoley Alekseyevich; STEBUNOV, N.S., red.;  
MISHNAYEVSKAYA, G.V., mlad. red.; GERASIMCOVA, Ye.S.,  
tekhn. red.

[Improve the establishment of work norms] Sovershenstvo-  
vat' normirovanie truda. Moskva, Ekonomizdat, 1963. 79 p.  
(MIRA 16:7)  
(Production standards)

PODKOVYROV, S.

The state farm "Zarya Kommunizma" is under construction. Na stroi.  
Ros. 3 no.1:26-27 Ja '62. (MIRA 16:5)

1. Nachal'nik proizvodstvenno-tekhnicheskogo otdala stroitel'no-mon-  
tazhnogo upravleniya No.6 Moskovskoy oblastnoy stroitel'noy kontory  
No.1. (Podol'sk District—Building)

11(4)

SOV/92-58-10-9/30

AUTHORS: Proshkin, A.A. and Podkopyrova, L.M., Staff Members of  
the Bashkir Scientific Research Institute of the Petroleum  
Industry

TITLE: Cracking of Sulfurous Crudes (Krekirovaniye sernistykh  
neftey)

PERIODICAL: In the eastern regions a considerable number of cracking units of Soviet domestic design used for processing topped crudes or light mazout have been put on stream. Since the range of products yielded by the Atmospheric-Vacuum Pipe Stills has changed during the last few years, refineries are compelled to use heavier crude stock for feeding their thermal cracking units. This increased the accumulation of carbon deposits in furnace pipes however and made a revision of the original flow scheme necessary. According to the revised flow scheme the mixture of crude stock with recycling fractions is now brought from the accumulator of the low pressure evaporator to the lower part of the fractionator.

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## Cracking of Sulfurous Crudes

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Some changes were also made in the equipment. For example, caps were removed from the lower plates of the fractionator in order to slow down the vapor flow and to prevent tarry matters from getting into the light reflux accumulator. Three plates were removed from the lower part of the low pressure evaporator to prevent the cracked residue from mixing with vaporized products. Heat exchangers of the pipe-in-pipe type were installed instead of conventional residual heat exchangers. All these measures made it possible to extend the operating cycle of units, to increase the gasoline yield, and to process heavier residues. The analysis of thermal cracking operations of the new refineries in Ufa, Kuybyshev, and Omsk reveals that each of these refineries differs considerably in regard to the composition of feed used, the refinery throughput, the yield of gasoline, and conditions under which units are run. Figures given in Table 1 characterize operations of each of the above-mentioned refineries. Refineries at Kuybyshev and Omsk, where less gas oil is produced, process crude stock of a lighter fractional composition. The new refinery in Ufa has the highest throughput. Even though

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## Cracking of Sulfurous Crudes

SOV/92-58-10-9/30

cracking units of this refinery process a heavy feed stock containing a substantial amount of tarry matters, they are able to maintain a high temperature at the outlet of their furnaces. It follows, therefore, that cracking units of other refineries could eventually increase their gasoline yield by intensifying the cracking process. The charge of the light stock furnaces contained 22-25 percent gasoline and the charge of the heavy stock furnaces 48-52 percent fractions with 205°C -350°C E.P. Besides, it was found that it is not possible to perform, as planned, the mild cracking of all fractions boiling above 350°C, and the deep cracking of all fractions boiling in the range between 205°C and 350°C. The charge of the heavy stock furnaces contained not only light reflux fractions, but from 3 to 8 percent of gasoline end fractions. The desired selectivity of the thermal cracking process could be improved by feeding the heavy stock furnace with the product from the accumulator of the low pressure evaporator. Tests conducted in 1957 at the Ufa refinery confirmed that the gasoline yield and the unit throughput can be increased if the above flow scheme is followed. However, this scheme shortens the

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Cracking of Sulfurous Crudes

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operating cycle and some measures have to be taken to extend it. Moreover, it was also observed that crudes are not properly treated before they are refined and, as a result, mazout contains from 209 to 838 mg/lit of chlorides. The percentage of gasoline formed in various sections of the unit is shown in Table 2. Observations made by the author lead to the conclusion that polymerization and condensation reactions are predominant in the light stock furnace and that the decomposition reaction should be intensified by removing the convection chamber from the heating system of the light reflux. As the experience of running thermal cracking units indicates, it is advisable to use, at first, the stock of a lighter fractional composition when the unit is put on stream after a shutdown necessitated by repairs. There are 2 tables and 1 diagram.

ASSOCIATION: BashNII (The Bashkir Scientific Research Institute of Petroleum Industry)

Card 4/4

1142 621315.2

*PJA*

**Podkowa B. Styroflex and Air Insulated Symmetric Cables for Twelve-Fold Transmission Systems**

„Kabel symetryczny o izolacji styrofleksowo-powietrznej do dwunastokrotnego systemu transmisyjnego”. Przegląd Telekomunikacyjny, No. 2, 1951, pp. 42—56. 18 figs.

The article deals with the chemical structure and properties of styroflex, and describes the design of styroflex and air insulated symmetric cables for twelve-fold systems, with computations of unit and wave parameters of track. The results of computations have been checked with experimental data obtained from input resistance measurements, in both idle and short-circuited state.

RYLSKI, Leszek; SENCZUK, Lidia; ADAMIAK, Alicja; PODKOWA, Sabina;  
WOZNIAK, Maria

Synthesis of 2-phenyl-1-keto-1,2-dihydrophthalazine derivatives.  
Acta Pol. pharm. 22 no.2:111-115 '65.

1. Z Zakladu Technologii Chemicznej Srodkow Leczniczych  
Akademii Medycznej w Gdansku (Kierownik: doc. dr. L. Rylski).

POL/ED

Wojciech PIOTRCH and Maria POLKOWSKA, Department of Internal Medicine,  
S, Regional Hospital (Szcziala Chorob Wewnetrznych i Szpitala Chirurgic-  
zkiego) Head Physician (Ordynator) dr M. PIOTRCH, Director of Hospital  
(Dyrektor Szpitala) dr S. GLAZER, Opole.

"Use of the Electrosiograph "Kwadruplex Hellinger" for angiogra-  
phy."

Warszaw. Postępy Medyczne i Medycyna Doswiadczeniowa, Vol 10, No 3,  
Sep-Oct 1962; pp 631-633.

Abstract: Description of the 3-channel apparatus named and its use  
for the purpose stated. Photograph shows lead an electrode on back  
of patients. See diagrams.

1/1

WIEWIĆROWSKI, M.; PODKOWIŃSKA, H.:

Biogenesis of lupin alkaloids. Occurrence of gramine in  
Lupinus luteus. Bul Ac Pol biol 10 no.9:357-359 '62.

1. Institute of Biochemistry and Biophysics, Polish Academy of  
Sciences, Warsaw, and Department of General Chemistry, School  
of Economics, Poznan. Presented by J. Heller.

POLAND

WIECHIORSKI, M. and PODKOWINSKA, H. Institute of Biochemistry and Biophysics (Instytut Biochemii i Biofizyki) of PAN [Polska Akademia Nauk, Polish Academy of Sciences] and the Chair of General Chemistry (Katedra Chemii Ogolnej) of the Higher School of Economics (Wyższa Szkoła Ekonomiczna) in Poznan

"Biogenesis of Lupin Alkaloids. Occurrence of Gramine in *Lupinus luteus*."

Warsaw, Bulletin de L'Academie Polonaise des Sciences, Serie des Sciences Biologiques, Vol 10, No 9, 62, pp 357-359.

Abstract: [English article] Investigation of 3-week seedlings cotyledons of *L. luteus* revealed a considerable quantity (15 percent of all alkaloids) of an alkaloid identified as gramine. Gramine was also established in other parts of the seedling, but in much lower (ten times) quantities. Of the 16 references, three (3) are Polish, one (1) Russian, and the rest German and Western bloc.

1/1

PODKOWINSKI, J.

Mechanization of wood barking in Sweden. (Conclusion) p.234  
(PRZEGLAD PAPIERNICZY, Vol. 12, No. 8, Aug. 1956, Lodz, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 9, Sept. 1957, Uncl.

POLIND/Chemical Technology. Chemical Products and Their  
Applications. Cellulose and Its Derivatives.  
Paper.

II

Abs Jour: Ref Zhur Khin., No 8, 1959, 29813.

Author : Podkowinski, J.

Inst :  
Title : The Utilization of Pallets and Lift Trucks in the  
Cellulose and Paper Industry.

Orig Pub: Przeglad Papiern., 14, No 6, 172-179 (1958) (in Polish  
with English and Russian summaries)

Abstract: Technical and economic data are presented in support  
of the recommended introduction of wooden and metal-  
lic pallets in the storage rooms for both inter and  
intraplant transport and of lift trucks for semi-

Card : 1/2